

ABSTRACT OF THE DISCLOSURE

An intelligent network service control point, which is connected with a plurality of switching systems in a transport layer network over a common channel signaling network and with an Internet protocol network through a service control gateway, stores information for indicating that a first terminal is being connected to the Internet in a user information management table when the service control point receives a call waiting service request from the first terminal connected with the transport layer network. When one of said switching systems notifies that the first terminal is called from a second terminal, the service control point sends an incoming notification message to the first terminal through the gateway by referring the user information management table.